# CIVIL TECH LABS

# 5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com


## TEST REPORT

### GRADATION TEST ON WET MIX MACADAM

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of the Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 27/07/2013 |
| **Technical Reference** | MORTH Table 400-11 |

| IS Sieve Designation (mm) | % By Weight Passing IS Sieve | Actual % By Weight Passing IS Sieve | Remarks |
|---|---|---|---|
| 53 | 100 | **100** | **Satisfies Requirements** |
| 45 | 95-100 | **98.1** | |
| 22.4 | 60-80 | **76.3** | |
| 11.2 | 40-60 | **55.2** | |
| 4.75 | 25-40 | **34.8** | |
| 2.36 | 15-30 | **25.2** | |
| 0.6 | 8-22 | **18.3** | |
| 0.075 | 0-8 | **6.3** | |

**Note:**

1.The results relate only to the items tested.

2.Report shall not be reproduced except in full, without the written approval of the lab.

3.Any correction invalidates this report.

4.The results are based on the test conducted on samples supplied by the client.

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ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ,
ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

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## TEST REPORT

### GRADATION TEST ON WET MIX MACADAM

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of the Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 30/07/2013 |
| **Technical Reference** | MORTH Table 400-11 |

| IS Sieve Designation (mm) | % By Weight Passing IS Sieve | Actual % By Weight Passing IS Sieve | Remarks |
|---|---|---|---|
| 53 | 100 | **100** | **Satisfies Requirements** |
| 45 | 95-100 | **98.8** | |
| 22.4 | 60-80 | **75.2** | |
| 11.2 | 40-60 | **54.1** | |
| 4.75 | 25-40 | **35.8** | |
| 2.36 | 15-30 | **24.9** | |
| 0.6 | 8-22 | **19.7** | |
| 0.075 | 0-8 | **6.1** | |

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## TEST REPORT

**TEST ON DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS CONCRETE MIX-GRADE 2**

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 04/08/2013 |

**A)**

| Sl. No. | Test | Test Method | Technical Reference |
|---|---|---|---|
| 1 | Extraction of mineral aggregate | **Test Method A (Centrifuge Method)** | **ASTM: D2172/ D2172M-11** |
| 2 | Determination of amount of mineral matter/fines in the extract | **Ashing Method** | |

**B)**

**Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%**

| Sl. No. | Description | Values |
|---|---|---|
| 1 | Weight of bituminous mixture before extraction test, **$W_1$ g** | **2000.00** |
| 2 | Weight of mineral aggregate obtained from centrifuge extractor, **$W_2$ g** | **1873.50** |
| 3 | Weight of mineral matter in the total volume of extract (by ashing), **$W_3$ g** | **13.41** |
| 4 | Total weight of aggregate in the bituminous mixture, **$W_4$ g = ($W_2$ +$W_3$) g** | **1886.91** |
| 5 | Total weight of Bitumen extracted from the mixture, **$W_5$ g = ($W_1$-$W_4$) g** | **113.09** |
| 6 | Bitumen content in **%, ($W_5$/$W_1$) %** | **5.65** |

| | |
|---|---|
| **Remarks** | **Satisfies the requirement.** |

**Note:**

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## TEST REPORT

### GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 04/08/2013 |
| **Technical Reference** | IS : 2386(Part I)–1963 (Reaffirmed 2011) |

| | Sample-1 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 19 | 100 | **100** | **Satisfies the requirements** |
| 13.2 | 79-100 | **98.8** | |
| 9.5 | 70-88 | **84.3** | |
| 4.75 | 53-71 | **64.1** | |
| 2.36 | 42-58 | **47.3** | |
| 1.18 | 34-48 | **35.2** | |
| 0.6 | 26-38 | **31.8** | |
| 0.3 | 18-28 | **24.1** | |
| 0.15 | 12-20 | **16.5** | |
| 0.075 | 4-10 | **7.8** | |

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## TEST REPORT

### GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 04/08/2013 |
| **Technical Reference** | IS : 2386(Part I)–1963 (Reaffirmed 2011) |

| | Sample-2 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 19 | 100 | **100** | **Satisfies the requirements** |
| 13.2 | 79-100 | **99.1** | |
| 9.5 | 70-88 | **81.8** | |
| 4.75 | 53-71 | **65.2** | |
| 2.36 | 42-58 | **46.3** | |
| 1.18 | 34-48 | **34.2** | |
| 0.6 | 26-38 | **31.6** | |
| 0.3 | 18-28 | **25.3** | |
| 0.15 | 12-20 | **15.9** | |
| 0.075 | 4-10 | **8.1** | |

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## TEST REPORT

**TEST ON DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS CONCRETE MIX-GRADE 2**

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 08/08/2013 |

**A)**

| Sl. No. | Test | Test Method | Technical Reference |
|---|---|---|---|
| 1 | Extraction of mineral aggregate | **Test Method A (Centrifuge Method)** | **ASTM: D2172/ D2172M-11** |
| 2 | Determination of amount of mineral matter/fines in the extract | **Ashing Method** | |

**B)**

**Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%**

| Sl. No. | Description | Values |
|---|---|---|
| 1 | Weight of bituminous mixture before extraction test, $W_1$ g | **2000.00** |
| 2 | Weight of mineral aggregate obtained from centrifuge extractor, $W_2$ g | **1874.60** |
| 3 | Weight of mineral matter in the total volume of extract (by ashing), $W_3$ g | **13.39** |
| 4 | Total weight of aggregate in the bituminous mixture, $W_4$ g = ($W_2$ +$W_3$) g | **1887.99** |
| 5 | Total weight of Bitumen extracted from the mixture, $W_5$ g = ($W_1$-$W_4$) g | **112.01** |
| 6 | Bitumen content in %, ($W_5$/$W_1$) % | **5.60** |

| | |
|---|---|
| **Remarks** | **Satisfies the requirement.** |

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## TEST REPORT

### GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 08/08/2013 |
| **Technical Reference** | IS : 2386(Part I)–1963 (Reaffirmed 2011) |

| | Sample-1 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 19 | 100 | **100** | **Satisfies the requirements** |
| 13.2 | 79-100 | **97.9** | |
| 9.5 | 70-88 | **85.4** | |
| 4.75 | 53-71 | **66.3** | |
| 2.36 | 42-58 | **46.4** | |
| 1.18 | 34-48 | **36.2** | |
| 0.6 | 26-38 | **31.6** | |
| 0.3 | 18-28 | **25.8** | |
| 0.15 | 12-20 | **17.2** | |
| 0.075 | 4-10 | **8.2** | |

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## TEST REPORT

### GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 08/08/2013 |
| **Technical Reference** | IS : 2386(Part I)–1963 (Reaffirmed 2011) |

| | Sample-2 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 19 | 100 | **100** | **Satisfies the requirements** |
| 13.2 | 79-100 | **98.1** | |
| 9.5 | 70-88 | **86.2** | |
| 4.75 | 53-71 | **66.4** | |
| 2.36 | 42-58 | **45.2** | |
| 1.18 | 34-48 | **35.3** | |
| 0.6 | 26-38 | **32.8** | |
| 0.3 | 18-28 | **24.9** | |
| 0.15 | 12-20 | **16.8** | |
| 0.075 | 4-10 | **7.9** | |

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## TEST REPORT

**TEST ON DETERMINATION OF BITUMEN CONTENT ON BITUMINOUS CONCRETE MIX-GRADE 2**

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 09/08/2013 |

**A)**

| Sl. No. | Test | Test Method | Technical Reference |
|---|---|---|---|
| 1 | Extraction of mineral aggregate | **Test Method A (Centrifuge Method)** | **ASTM: D2172/ D2172M-11** |
| 2 | Determination of amount of mineral matter/fines in the extract | **Ashing Method** | |

**B)**

**Specification: As Per MORTH (4th Revision) Table 500-18, Bitumen Content for BC Grade-2 is 5% to 7%**

| Sl. No. | Description | Values |
|---|---|---|
| 1 | Weight of bituminous mixture before extraction test, **$W_1$ g** | **2000.00** |
| 2 | Weight of mineral aggregate obtained from centrifuge extractor, **$W_2$ g** | **1875.30** |
| 3 | Weight of mineral matter in the total volume of extract (by ashing), **$W_3$ g** | **13.78** |
| 4 | Total weight of aggregate in the bituminous mixture, **$W_4$ g = ($W_2$ +$W_3$) g** | **1889.08** |
| 5 | Total weight of Bitumen extracted from the mixture, **$W_5$ g = ($W_1$-$W_4$) g** | **110.92** |
| 6 | Bitumen content in %, **($W_5/W_1$) %** | **5.55** |

| | |
|---|---|
| **Remarks** | **Satisfies the requirement.** |

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# TEST REPORT

## GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 09/08/2013 |
| **Technical Reference** | IS : 2386(Part I)–1963 (Reaffirmed 2011) |

| | Sample-1 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 19 | 100 | **100** | **Satisfies the requirements** |
| 13.2 | 79-100 | **98.6** | |
| 9.5 | 70-88 | **84.4** | |
| 4.75 | 53-71 | **68.2** | |
| 2.36 | 42-58 | **45.9** | |
| 1.18 | 34-48 | **37.7** | |
| 0.6 | 26-38 | **32.6** | |
| 0.3 | 18-28 | **24.9** | |
| 0.15 | 12-20 | **16.3** | |
| 0.075 | 4-10 | **8.8** | |

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## TEST REPORT

### GRADATION TEST ON BITUMINOUS CONCRETE MIX GRADE - 2

| | |
|---|---|
| **Name & Address of the Customer** | AEE, Vidyaranyapura Sub Division, BBMP |
| **Name of Work** | Pot hole filling to roads in ward no: 10 Doddabommasandra, Vidyaranyapura Sub Division. |
| **Name of Agency** | Sri. T. K. Shankarappa |
| **Date of Testing** | 09/08/2013 |
| **Technical Reference** | IS : 2386(Part I)–1963 (Reaffirmed 2011) |

| | Sample-2 | | |
|---|---|---|---|
| **IS Sieve Designation (mm)** | **% By Weight Passing IS Sieve as per MORTH (4th Revision) Table 500-18 for BC Grade-2** | **Actual % By Weight Passing IS Sieve** | **Remarks** |
| 19 | 100 | **100** | **Satisfies the requirements** |
| 13.2 | 79-100 | **97.9** | |
| 9.5 | 70-88 | **85.2** | |
| 4.75 | 53-71 | **67.1** | |
| 2.36 | 42-58 | **46.3** | |
| 1.18 | 34-48 | **36.2** | |
| 0.6 | 26-38 | **31.9** | |
| 0.3 | 18-28 | **25.6** | |
| 0.15 | 12-20 | **15.4** | |
| 0.075 | 4-10 | **8.1** | |

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